



Autonomous Tethered Drone Platform

Next-generation tethered drone capability to meet the growing need for persistent security

ON-POINT PERSPECTIVE

With advanced avionics to lock down in-flight stability, extremely long mission time, operational payload flexibility, and a modular design, the Autonomous Tethered Drone Platform (ATDP) delivers unmatched situational awareness and tactical ISR capability in an efficient and cost-effective solution.

Operation via physical flexible fiber cable link, the smart-tether station powers multi-rotor drone redundant systems for extended autonomous flight times

of up to 12 hours or more. Aerial sensor command and sensor communications are also handled via the fiber-optic tether—better securing data transmission to make it less susceptible to interference and/or active jamming.

Equipped with a fully autonomous auto-reel in/out winch system requiring no human intervention. The smart tether and man-portable Ground Control Station are both outfitted with LCD displays to actively monitor cable length, voltage and other vital parameters, with ethernet ports for direct connectivity.



Resilient Reliance

Fully autonomous tethered operation in all environments with immunity to external jamming and power resistance



Unobstructed Awareness

A vertical range of up to 120m providing fully unobstructed situational awareness



Versatile Deployment

Deployable in urban or rural environments as a ground or vehicle-based system for maximum versatility

For full specs, visit [seewhatliesahead.com](https://www.seewhatliesahead.com)



SPEC

QUADCOPTER

Drone/Uav	Quadcopter
Endurance	12 Hours (Regular Operations) *Up to 24 Hours
All Up Weight	20Kg (44Lbs)
Max Operating Altitude	3Km (1.9M) AMSL
Max Operating Height (AGL)	120m (394')
Payload Type	EO/IR Integrated Camera (or other Sensors)
Anti-Jam Gnss Capability	Yes (Optional)*
Operating Weather Capability	Wind Resistance of 35kmph in Steady Winds and 45kmph in Wind Gusts Water and Dust Resistance
Operating Temperature	-15°C to +55°C (5°F to 131°F)
Storage Temperature	-20°C to +60°C (-4°F to 140°F)

TETHER STATION

Power Output	3Kw
Power Input	100-240 AC
Tether Cable Length	130m (426')
Tether Transmission Voltage	400Vdc
Display	Sun Readable LCD
Display Size	5"
Emergency Stop	Push Button
Auto-Home On Power Lost	Yes
Battery Backup	Yes
Network Connection	RJ45 / Fiberoptics

CAMERA [VISIBLE]

	NV20	NV40	VL30	VL50TR
Sensor Type	Color CMOS Sensor	Color CMOS Sensor	Color CMOS Sensor	Color CMOS Sensor
Resolution	1920 x 1080 [2.1Mpix]			
Zoom	20x Optical	40x Optical	30x Optical	30x Optical

CAMERA [THERMAL]

Sensor Type	Micro Bolometer	Micro Bolometer	Micro Bolometer	Micro Bolometer
Resolution	640 x 480	1280 x 720	640 x 512	640 x 512
Zoom	2x Digital	8x Digital	4x Digital	8x Digital

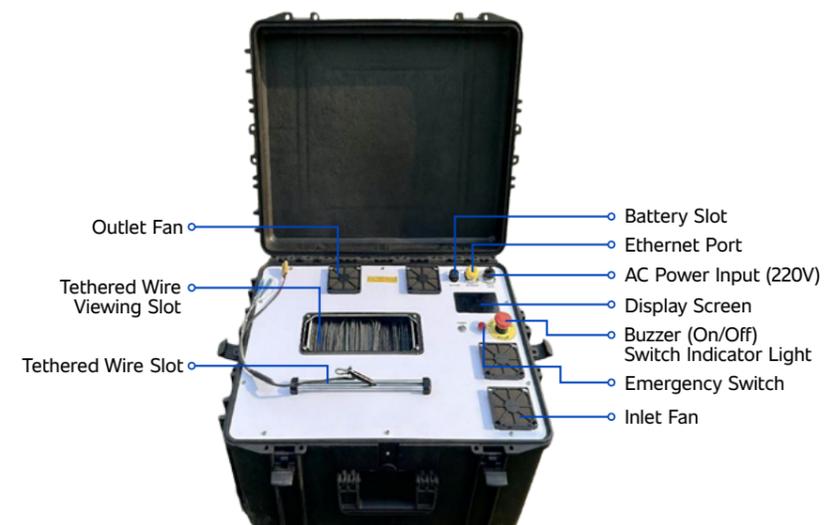
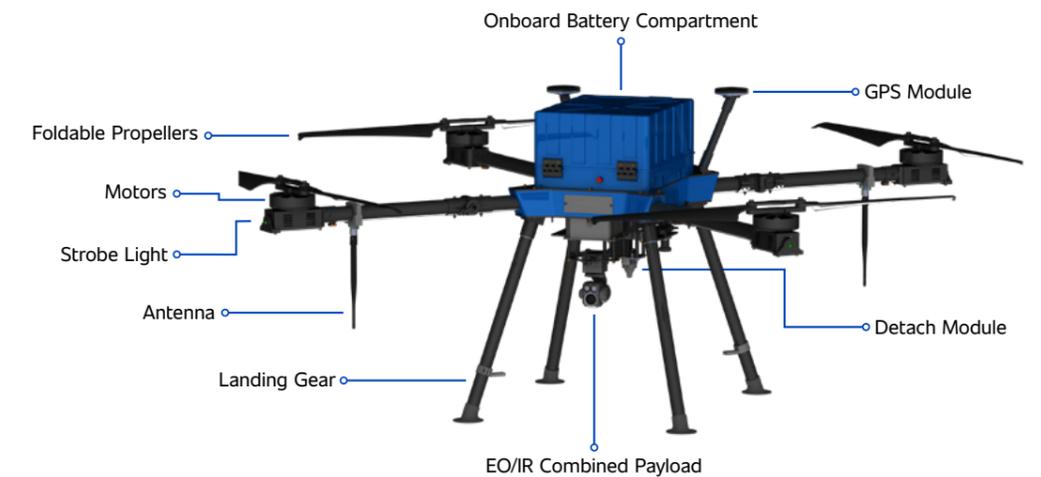
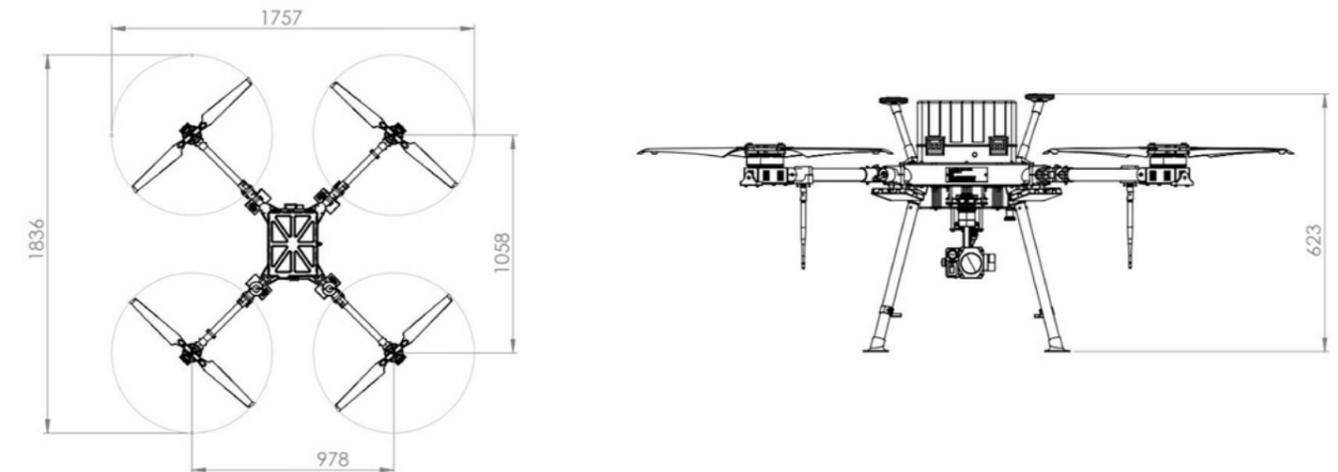
CAMERA [SYSTEM]

Weight	180g (6.3oz)	640g (1.4Lbs)	1Kg (2.2Lbs)	1.5Kg (3.3Lbs)
Pan Range	360° (non-continuous)	360° (continuous)	360° (continuous)	360° (continuous)
Tilt Range	+90° to -135°	-45° to +135°	-60° to +150°	-60° to +150°
Roll Range	+45° to -45°	-	+45° to -45°	+45° to -45°

RANGE PERFORMANCE

Human Detection (LWIR)	1.8Km (1.1M)	4Km (2.5M)	0.7Km (0.4M)	2Km (1.2M)
Human Recognition (LWIR)	0.5Km (0.3M)	1.2Km (0.75M)	0.25Km (0.15M)	0.5Km (0.3M)
Vehicle Detection (LWIR)	2.5Km (1.5M)	6.5Km (4M)	1.8Km (1.1M)	5Km (3.1M)
Vehicle Recognition (LWIR)	0.8Km (0.5M)	1.5Km (0.9M)	0.6Km (0.4M)	1.3Km (0.8M)

Mechanical Line Art



NVeyeTech

See what lies ahead.

CONTACT US

seewhatliesahead.com
tom.frane@nveyetech.com
+1 (503) 701-0213

4422 Airport Expressway, Suite 220
Fort Wayne, IN 46809
United States



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